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| APPLICATION NO.           | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.   | CONFIRMATION NO. |
|---------------------------|-------------|----------------------|-----------------------|------------------|
| 10/633,848                | 08/04/2003  | Chang-Ho You         | 8836-194 (1B12195-US) | 5667             |
| 22150                     | 7590        | 10/21/2004           | EXAMINER              |                  |
| F. CHAU & ASSOCIATES, LLC |             |                      | MAI, SON LUU          |                  |
| 130 WOODBURY ROAD         |             |                      | ART UNIT              | PAPER NUMBER     |
| WOODBURY, NY 11797        |             |                      | 2818                  |                  |

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/633,848             | YOU, CHANG-HO       |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | Son L. Mai             | 2818                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 13 September 2004.

2a) This action is **FINAL**.                                   2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-30 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 1-4,6-13,16-23,26-29 is/are allowed.

6) Claim(s) 5,14,15,24,25 and 30 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 13 September 2004 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

6) Other: \_\_\_\_\_.

## DETAILED ACTION

1. The papers filed 09-13-04 have been entered. However some deficiencies still exist.

### *Drawings*

2. The drawings of figures 1 and 2 were received on 09-13-04. These drawings are acceptable.

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "second circuit" in claims 1, 8, 11, 18, 21 and 28 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. On pages 8 and 9 of the specification, the Applicant describes a circuit for generating a high voltage control signal HVP. What is missing here is how the circuit (a second circuit in claims 1,11, 21) connected to other circuits in figure 3 to function as claimed? The specification also fails to explain the connections between the circuits.

### *Claim Rejections - 35 USC § 112*

4. Claims 5, 14, 15, 24, 25 and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 5, the recitation "the third time is longer than the second time by a predetermined interval" is confusing. As understood from the specification and the drawings, the second time is the time "tp" and the third time is the time "t2". These

points of time do not have intervals. So, by comparing one point of time to another does not make sense. Correction is required.

Regarding claims 14, 15, 24 and 25, they are rejected for the same reason as claim 5.

Regarding claim 30, the limitation "the third circuit activates at least one precharge signal" in lines 1-2, is misdescriptive. The precharge signals including first and second precharge signals in claim 21 should activate the third circuit (first and second precharge transistors MPs). This operation is explained on page 6.

***Allowable Subject Matter***

5. Claims 1-4, 6-13, 16-23, 26-29 are allowed.
6. Claims 5, 14, 15, 24, 25 and 30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
7. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach or suggest a flash memory having three different circuits for charging non-selected bit lines and selected bit lines to different voltage levels at different times to avoid peak current due to voltage charging concentration.

***Conclusion***

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786. The examiner can normally be reached on 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Neils can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



10-20-04

Son L. Mai  
Primary Examiner  
Art Unit 2818